

**DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
OFFICE OF EDUCATION
ERIC REPORT RESUME**

ERIC ACC. NO. ED 030 782					IS DOCUMENT COPYRIGHTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
CH ACC. NO. AA 000 389	P.A.	PUBL. DATE Jul 69	ISSUE RIEDEC69	ERIC REPRODUCTION RELEASE? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			LEVEL OF AVAILABILITY <input checked="" type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III	
AUTHOR								
TITLE Science Education Information Report, General Bibliography Series 30, Teacher Characteristics, Student Characteristics.								
SOURCE CODE RUF24927	INSTITUTION (SOURCE) ERIC Information Analysis Center for Science Education, Columbus, Ohio							
SP. AG. CODE	SPONSORING AGENCY							
EDRS PRICE 0.25;1.15	CONTRACT NO.			GRANT NO.				
REPORT NO.				BUREAU NO.				
AVAILABILITY								
JOURNAL CITATION								
DESCRIPTIVE NOTE 21p.								
DESCRIPTORS *Bibliographies; *Science Education; *Mathematics Education; Science Teachers; Mathematics Teachers; Student Attitudes; *Student Characteristics; Teacher Attitudes; *Teacher Characteristics; Teacher Evaluation								
IDENTIFIERS								
ABSTRACT Reported are 49 citations of documents related to teacher and student characteristics in science and mathematics education. The documents included represent research reviews, conference reports, research reports, position papers, textbooks, manuals, speeches, and other types. Citations are categorized in alphabetical order by author, and indicate source, availability, and major ideas of the document. The bibliography updates, but does not replace, bibliography 20 (ED 026 286) and bibliography 10 (ED 021 773). (RH)								

GENERAL BIBLIOGRAPHY SERIES
BIBLIOGRAPHY 30

TEACHER CHARACTERISTICS
STUDENT CHARACTERISTICS

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE
PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS
STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION
POSITION OR POLICY.

SEIAC/SCIENCE EDUCATION INFORMATION ANALYSIS CENTER

... an information center to organize and disseminate information and materials on science education to teachers, administrators, supervisors, researchers, and the public. A joint project of The Ohio State University and the Educational Resources Information Center of USOE.

SCIENCE EDUCATION INFORMATION REPORT

**GENERAL BIBLIOGRAPHY SERIES
BIBLIOGRAPHY 30**

**TEACHER CHARACTERISTICS
STUDENT CHARACTERISTICS**

**ERIC Information Analysis Center
for Science Education
1460 West Lane Avenue
Columbus, Ohio 43210**

July, 1969

BIBLIOGRAPHY 30

Table of Contents	Page
A. Teacher Characteristics	1
B. Student Characteristics	7
C. Author Index	14
D. Unauthored Articles	15

SCIENCE EDUCATION INFORMATION REPORTS

The Science Education Information Reports are being developed to disseminate information concerning documents analyzed at the ERIC Information Analysis Center for Science Education. The Reports include five types of publications. General Bibliographies are being issued to announce most documents processed by the Information Analysis Center for Science Education. These bibliographies are categorized by topics and indicate the availability of the document and the major ideas included in the document. Special Bibliographies are being developed to announce availability of documents in selected interest areas. These bibliographies will list most significant documents that have been published in the interest area. Guides to Resource Literature for Science Teachers are bibliographies that identify references for the professional growth of teachers at all levels of science teaching. This series will include six separate publications. State-of-the-Art Papers will be issued periodically to indicate implications of research for science teaching. Research Reviews will be issued to analyze and synthesize research related to science education over a period of several years.

The Science Education Information Reports will be announced in the SEIAC Newsletter as they become available.

GENERAL BIBLIOGRAPHIES

The General Bibliographies are being developed to announce the documents acquired and processed by the ERIC Information Analysis Center for Science Education. The bibliographies will focus on general topics. This bibliography announces most documents related to the topic that were included in the third 2,000 documents processed by this Center. It supplements General Bibliography 10 and 20. Additional supplements will be issued as documents are processed.

USING BIBLIOGRAPHIC CITATIONS

All documents are listed by similar bibliographic citations. A sample citation is explained for your convenience. You will find it helpful to study the explanation of the sample citation before using this bibliography.

SAMPLE OF BIBLIOGRAPHIC CITATION

(1) SE 004 904	(2) 3	(3) 10 31 15
(4) HELGESON, STANLEY L.		
(5) LESSON PLANS AND TESTS OF KNOWLEDGE, COMPREHENSION, AND APPLICATION FOR INSTRUCTION IN CONCEPTS OF FORCE, GRADES 2-6		
(6) UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER		
(7) EDRS		
(8) ED 020 907	MF \$0.25	HC \$2.35
(9) 03 00 68	(10) 45	
(11) *ELEMENTARY SCHOOL SCIENCE, *FORCES (PHYSICAL), *INSTRUCTION, *PHYSICS, *TEACHING GUIDES, ACADEMIC ACHIEVEMENT, COGNITIVE PROCESSES, CONCEPT FORMATION, EVALUATION, LEARNING, PHYSICAL SCIENCES, TESTS, RESEARCH REPORTS		

EXPLANATION OF BIBLIOGRAPHIC CITATION

(1) SE 004 904

This is the Science Education Center's identification number for the document. It serves as the name for the document and provides a way of locating the material.

(2) 3

This field indicates the level of processing of the document.

1--cataloged and indexed

2--cataloged, indexed, and annotated or abstracted

3--announced in Research in Education

(3) 10 31 15

Field three is a code for developing bibliographies. By using this code several kinds of bibliographies can be structured by retrieval specialists or by computer programs.

(4) HELGESON, STANLEY L.

The principal author, editor, or organization associated with the writing of the document is listed.

(5) LESSON PLANS AND TESTS OF KNOWLEDGE, COMPREHENSION, AND APPLICATION FOR
INSTRUCTION IN CONCEPTS OF FORCE, GRADES 2-6

Title of document.

(6) UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER

This indicates where the document was obtained by the Center.

(7) EDRS

Field seven indicates the source of the document. If the document is available from the ERIC Document Reproduction Service (EDRS) it can be ordered.

(8) ED 020 907 MF \$0.25 HC \$2.35

If a document is announced in Research in Education, the ED number of the document is indicated in this space. If the document is available from EDRS the price of the document is also indicated in this field. MF indicates microfiche and HC indicates hardcopy. This document would cost \$0.25 in microfiche or \$2.35 in hardcopy.

(9) 03 00 68

This field designates the publication date of the document (March, 1968). The first set of two numerics represents the month; the second, the day of the month; and the third, the year. In most cases the date is obtained from the document. In a few cases, when no date of publication is on the document, the date is estimated based on the best information available in the document.

(10) 45

Field ten identifies the number of pages in the document. This document contains 45 pages. Use of this field will provide information concerning the length of the document.

(11) *ELEMENTARY SCHOOL SCIENCE, *FORCES (PHYSICAL), *INSTRUCTION, *PHYSICS, *TEACHING GUIDES, ACADEMIC ACHIEVEMENT, COGNITIVE PROCESSES, CONCEPT FORMATION, EVALUATION, LEARNING, PHYSICAL SCIENCES, TESTS, RESEARCH REPORTS

This field provides an indication of the ideas included in the document. Each term, such as *INSTRUCTION, has been selected by an information analyst because the term is important for the identification of the document. Terms marked with an asterisk represent primary ideas in the document; the other terms represent ideas of lesser importance. You can use this information to narrow the number of documents you want to review.

A. TEACHER CHARACTERISTICS

1. SE 005 049 3 12 95 03
SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 10, TEACHER
CHARACTERISTICS, STUDENT CHARACTERISTICS
ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO
EDRS
ED 021 773 MF \$0.25 HC \$0.95
05 00 68
*BIBLIOGRAPHIES, *SCIENCE TEACHERS, *STUDENT CHARACTERISTICS, *TEACHER
CHARACTERISTICS, ADVANCED PROGRAMS, BIOLOGY, CHEMISTRY, COLLEGE SCIENCE,
DOCTORAL THESES, ELEMENTARY SCHOOL SCIENCE, EDUCATIONALLY DISADVANTAGED,
INTERACTION PROCESS ANALYSIS, PHYSICS, PHYSICAL SCIENCES, SLOW LEARNERS,
SECONDARY SCHOOL SCIENCE, TEACHER EVALUATION, TEACHER ATTITUDES, STUDENT
ATTITUDES
2. SE 005 757 3 12 92 17
CARTER, JACK CALDWELL
SELECTED CHARACTERISTICS OF BEGINNING SCIENCE AND MATHEMATICS
TEACHERS IN GEORGIA
UNIVERSITY OF GEORGIA
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 025 425 NOT AVAILABLE FROM EDRS
67 150
*BEGINNING TEACHERS, *MATHEMATICS TEACHERS, *SCIENCE TEACHERS, *TEACHER
CHARACTERISTICS, PERSONALITY STUDIES, DOCTORAL THESES, RESEARCH REPORTS,
BILLS INDEX OF ADJUSTMENT AND VALUES, TERP ATTITUDE SCALE, RYAN'S
TEACHER CHARACTERISTICS SCHEDULE, GEORGIA
3. SE 005 110 2 12 01 17
CARUTHERS, BERTRAM, SR.
TEACHER PREPARATION AND EXPERIENCE RELATED TO ACHIEVEMENT OF FIFTH
GRADE PUPILS IN SCIENCE
UNIVERSITY OF NEBRASKA TEACHERS COLLEGE
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
67 85
*ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, *ELEMENTARY SCHOOL TEACHERS,
*TEACHER CHARACTERISTICS, ACADEMIC ACHIEVEMENT, DOCTORAL THESES, GRADE 5,
INSTRUCTION, RESEARCH REPORTS, TEACHER EXPERIENCE, TEACHER BEHAVIOR, TEACHER
BACKGROUND
4. SE 004 396 1 12 86 20
HANDLEY, HERBERT M; BLEDSOE, JOSEPH C.
THE PERSONALITY PROFILES OF INFLUENTIAL SCIENCE TEACHERS, REGULAR
SCIENCE TEACHERS, AND SCIENCE RESEARCH STUDENTS
JOURNAL OF RESEARCH IN SCIENCE TEACHING
68 9
*PERSONALITY STUDIES, *SCIENCE TEACHERS, *TEACHER CHARACTERISTICS,
*TEACHER ROLE, RESEARCH REPORTS

(1)

5. SE 004 377 1 12 86 17
HEDLEY, CAROLYN NEAL
THE RELATIONSHIP OF PERSONALITY FACTORS TO SCIENTIFIC AND MATHEMATICAL
ABILITY FACTORS
SCHOOL SCIENCE AND MATHEMATICS
04 00 68 7
*ABILITY, *SCIENTIFIC APTITUDE, *TEACHER CHARACTERISTICS, MATHEMATICS,
PREDICTION, RESEARCH REPORTS, SCIENCES, SCIENTISTS, KUDER PREFERENCE
RECORD, SCIENCE COLLEGE ABILITY TEST, MINNESOTA MULTIPHASE PERSONALITY
INVENTORY, 1961, UNIVERSITY OF ILLINOIS
6. SE 005 849 1 12 02 22
HELDMAN, LAWRENCE; AND OTHERS
AN INVENTORY OF THE NEEDS OF TEACHERS OF SCIENCE IN THE CATSKILL
AREA SCHOOLS, PART II, GRADES 7-12
CATSKILL AREA SCHOOL STUDY COUNCIL, ONEonta, NEW YORK
04 00 68 16
*PROJECT REPORTS, *SECONDARY SCHOOL SCIENCE, *SCHOOL SURVEYS, *SCIENCE
TEACHERS, *SCIENCE PROGRAMS, SCIENCE FACILITIES, TEACHER CHARACTERISTICS,
CATSKILL AREA SCHOOL STUDY COUNCIL, PROJECT PROBE, UNITED STATES OFFICE
OF EDUCATION
7. SE 005 131 3 12 81 17
HINES, SALLYLEE HUGHES
A STUDY OF CERTAIN FACTORS WHICH AFFECT THE OPINIONS OF ELEMENTARY
SCHOOL TEACHERS IN THE TEACHING OF SCIENCE
OKLAHOMA STATE UNIVERSITY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 024 583 NOT AVAILABLE FROM EDRS
66 332
*ELEMENTARY SCHOOL SCIENCE, *ELEMENTARY SCHOOL TEACHERS, *TEACHER
ATTITUDES, DOCTORAL THESES, RESEARCH REPORTS, TEACHER CHARACTERISTICS,
TEACHER BACKGROUND, 1966
8. SE 005 135 3 12 93 17
JORGENSEN, HAROLD CHRISTEN
CHARACTERISTICS OF TEACHER SUBMITTING APPLICATIONS FOR ACADEMIC
YEAR INSTITUTE PROGRAMS AT OREGON STATE UNIVERSITY
OREGON STATE UNIVERSITY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 024 584 NOT AVAILABLE FROM EDRS
66 155
*SCIENCE INSTITUTES, *TEACHER CHARACTERISTICS, DOCTORAL THESES,
EDUCATIONAL BACKGROUND, SCIENCE TEACHERS, TEACHER EDUCATION,
ACADEMIC YEAR INSTITUTE, OREGON STATE UNIVERSITY

9. SE 005 462 1 12 86 17
KIMBALL, MERRITT E.
UNDERSTANDING THE NATURE OF SCIENCE: A COMPARISON OF SCIENTISTS
AND SCIENCE TEACHERS
JOURNAL OF RESEARCH IN SCIENCE TEACHING
68 11
*SCIENTIFIC ENTERPRISE, *SCIENTISTS, *SCIENCE TEACHERS, *SCIENTIFIC
CONCEPTS, COMPARATIVE ANALYSIS, RESEARCH REPORTS, TEACHER EDUCATION,
FORD FOUNDATION, NATURE OF SCIENCE SCALE
10. SE 005 138 3 12 81 17
LANE, RODNEY A.
DETERMINATION OF THE COMPETENCE IN THE AAAS ELEMENTARY SCIENCE
CURRICULUM OF ELEMENTARY SCHOOL TEACHERS IN TWO FLORIDA COUNTIES
FLORIDA STATE UNIVERSITY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 023 592 NOT AVAILABLE FROM EDRS
66 159
*ELEMENTARY SCHOOL SCIENCE, *ELEMENTARY SCHOOL TEACHERS, *TEACHER
CHARACTERISTICS, *TEACHER BACKGROUND, *TEACHER BEHAVIOR, DOCTORAL
THESES, SCIENCE EDUCATION, FLORIDA, SCIENCE - A PROCESS APPROACH,
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, ELEMENTARY
TEACHERS SCIENCE INVENTORY, 1966
11. SE 005 597 1 12 32 02
MACHLUP, STEFAN
RECRUITING HIGH SCHOOL TEACHERS - A PROPOSAL
THE PHYSICS TEACHER
09 00 68 3
*PHYSICS TEACHERS, *SECONDARY SCHOOL SCIENCE, *TEACHER RECRUITMENT,
*TEACHER EDUCATION, PHYSICS, SALARIES, TEACHER CHARACTERISTICS, 1968
12. SE 005 646 1 12 12 17
PARAKH, JAL S.
A STUDY OF TEACHER-PUPIL INTERACTION IN HIGH SCHOOL BIOLOGY
CLASSES. PART II, DESCRIPTION AND ANALYSIS
JOURNAL OF RESEARCH IN SCIENCE TEACHING
68 10
*BIOLOGY, *INTERACTION PROCESS ANALYSIS, *INSTRUCTION, *SECONDARY
SCHOOL SCIENCE, LEARNING, RESEARCH REPORTS, STUDENT CHARACTERISTICS,
STUDENT BEHAVIOR, TEACHER BEHAVIOR, TEACHER CHARACTERISTICS,
FLANDERS INTERACTION ANALYSIS SYSTEM, 1967

13. SE 004 189 2 12 12 17
PARAKH, JAL S.
A STUDY OF RELATIONSHIPS AMONG TEACHER BEHAVIOR, PUPIL BEHAVIOR,
AND PUPIL CHARACTERISTICS IN HIGH SCHOOL BIOLOGY CLASSES, FINAL REPORT
U.S. DEPARTMENT OF HEW, OFFICE OF EDUCATION
09 00 67 130
*BIOLOGY, *EDUCATIONAL RESEARCH, *INTERACTION PROCESS ANALYSIS,
*SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, *TEACHER BEHAVIOR,
*STUDENT CHARACTERISTICS, ACADEMIC ACHIEVEMENT, RESEARCH REPORTS, 1966
14. SE 005 158 3 12 75 17
PERKES, VICTOR ASTON
JUNIOR HIGH SCHOOL TEACHER PREPARATION, TEACHING BEHAVIORS,
AND STUDENT ACHIEVEMENT
STANFORD UNIVERSITY, CALIFORNIA
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 025 417 NOT AVAILABLE FROM EDRS
67 428
*ACHIEVEMENT, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *TEACHER
CHARACTERISTICS, *TEACHER BACKGROUND, DOCTORAL THESES, EFFECTIVE
TEACHING, TEACHING PROCEDURES, SCIENCE TEACHING OBSERVATION
INSTRUMENT, CALIFORNIA TEST OF MENTAL MATURITY
15. SE 003 745 3 12 09 17
ROSENBLUM, PAUL C.; AND OTHERS
CHARACTERISTICS OF MATHEMATICS TEACHERS THAT AFFECT STUDENTS'
LEARNING. FINAL REPORT
MINNESOTA SCHOOL MATHEMATICS AND SCIENCE CENTER, UNIVERSITY
OF MINNESOTA, MINNEAPOLIS
EDRS
ED 021 707 MF \$0.75 HC \$8.45
08 00 66 167
*INSTRUCTION, *LEARNING, *MATHEMATICS, *TEACHER CHARACTERISTICS,
*SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT, CURRICULUM, TEACHER
EDUCATION
16. SE 004 382 1 12 32 17
SADLER, PAUL M.
TEACHER PERSONALITY CHARACTERISTICS AND ATTITUDES CONCERNING
PSSC PHYSICS
JOURNAL OF RESEARCH IN SCIENCE TEACHING
68 2
*ATTITUDES, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TEACHER
CHARACTERISTICS, *TEACHER ATTITUDES, PERSONALITY, RESEARCH
REPORTS, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCE STUDY
COMMITTEE, BIOLOGICAL SCIENCES CURRICULUM STUDY, CALIFORNIA
PSYCHOLOGICAL INVENTORY, VALPARAISO UNIVERSITY

17. SE 004 043 3 12 42 17
SARGENT, EARL ALVIN
A STUDY TO DETERMINE CERTAIN CHARACTERISTICS OF EARTH SCIENCE CURRICULUM
PROJECT TEACHERS AND STUDENTS IN THE PERMISSIVE OR AUTHORITARIAN
CLASSROOMS WHICH LEAD TO GREATER ACADEMIC ACHIEVEMENT IN THESE STUDENTS
COLORADO STATE COLLEGE, GREELEY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 021 716 NOT AVAILABLE FROM EDRS
66 136
*ACHIEVEMENT, *EARTH SCIENCE, *SECONDARY SCHOOL SCIENCE, *TEACHING
METHODS, *TEACHER CHARACTERISTICS, COMPARATIVE ANALYSIS, DOCTORAL
THESES, NON-AUTHORITARIAN CLASSES, SCIENCE TEACHERS, RESEARCH REPORTS,
ELEMENTARY SCIENCE, CURRICULUM PROJECT
18. SE 004 388 1 12 32 17
SCHMEDEMANN, GARY; LA SHIER, WILLIAM S.
COGNITIVE PREFERENCES OF STUDENTS AND SELECTED CHARACTERISTICS
OF THEIR PSSC TEACHERS
JOURNAL OF RESEARCH IN SCIENCE TEACHING
68 3
*COGNITIVE PROCESSES, *PHYSICS, *SECONDARY SCHOOL SCIENCE,
*TEACHER CHARACTERISTICS, RESEARCH REPORTS, COGNITIVE PREFERENCE TEST,
PHYSICAL SCIENCE STUDY COMMITTEE, 1966
19. SE 004 538 1 12 33 22
SHUGART, C. G.
A COURSE AND TEACHER EVALUATION
THE PHYSICS TEACHER
04 00 68 4
*COLLEGE SCIENCE, *EVALUATION, *PHYSICS, *TEACHER EVALUATION,
*TEACHER CHARACTERISTICS, PHYSICAL SCIENCES
20. SE 005 924 1 12 92 17
TWEETEN, PAUL W.; YAGER, ROBERT E.
CONTENT PREPARATION OF SCIENCE TEACHERS IN IOWA
SCHOOL SCIENCE AND MATHEMATICS
12 00 68 4
*ACADEMIC EDUCATION, *SCIENCE TEACHERS, *SECONDARY SCHOOL SCIENCE,
*TEACHER CHARACTERISTICS, *TEACHER EDUCATION, BIOLOGY, CHEMISTRY,
PHYSICS, STATE SURVEYS, IOWA, 1968
21. SE 002 976 2 12 32 17
WALBERG, HERBERT J.; WELCH, WAYNE W.
PERSONALITY CHARACTERISTICS OF INNOVATIVE PHYSICS TEACHERS
JOURNAL OF CREATIVE BEHAVIOR
67 10
*CREATIVE TEACHING, *MALES, *PERSONALITY ASSESSMENT, *PHYSICS
TEACHERS, *SECONDARY SCHOOL SCIENCE, *TEACHER CHARACTERISTICS,
*TEACHER ATTITUDES, ACADEMIC ACHIEVEMENT, PHYSICS, RESEARCH
REPORTS, ALLPORT-VERNON-LINDZEY STUDY OF VALUES, EDWARDS
PERSONAL PREFERENCE SCHEDULE, MINNESOTA TEACHER ATTITUDE
INVENTORY, TEST OF SELECTED TOPICS IN PHYSICS

22. SE 005 491 1 12 21 17
WOODARD, A. L.
STAR TEACHER RESEARCH PROJECT
UNIVERSITY OF GEORGIA, ATHENS, COLLEGE OF EDUCATION
08 00 66 11
*MASTER TEACHERS, *SECONDARY SCHOOL SCIENCE, *SECONDARY SCHOOL
TEACHERS, *TEACHER CHARACTERISTICS, HIGH SCHOOL STUDENTS, RESEARCH
REPORTS, GEORGIA, UNIVERSITY OF GEORGIA, NATIONAL ASSOCIATION OF
RESEARCH IN SCIENCE TEACHING, STUDENT TEACHER ACHIEVEMENT
RECOGNITION, 1967

B. STUDENT CHARACTERISTICS

1. SE 004 924 1 13 86 20
EDITORIAL COMMENT
BIOLOGY AND HUMAN AFFAIRS
67 9
*ABILITY IDENTIFICATION, *INDIVIDUAL CHARACTERISTICS, *SCIENTISTS,
COLLEGE SCIENCE, PSYCHOLOGICAL CHARACTERISTICS, SOCIAL CHARACTERISTICS,
TALENT IDENTIFICATION
2. SE 004 021 2 13 12 17
BINGMAN, RICHARD MARVIN
APTITUDE AND INTEREST PROFILES OF TENTH GRADE BIOLOGY STUDENTS
PARTICIPATING IN THE MONTGOMERY COUNTY, PENNSYLVANIA SCIENCE FAIRS
TEMPLE UNIVERSITY, PHILADELPHIA, PENNSYLVANIA
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
67 161
*ATTITUDES, *BIOLOGY, *INTERESTS, *SECONDARY SCHOOL SCIENCE,
*SCIENCE FAIRS, DOCTORAL THESES, GRADE 10, RESEARCH REPORTS,
MONTGOMERY COUNTY, PENNSYLVANIA, 1967
3. SE 005 655 1 13 12 17
BINGMAN, RICHARD MARVIN
APTITUDE AND INTEREST PROFILES OF BIOLOGY PARTICIPANTS IN
MONTGOMERY COUNTY, PENNSYLVANIA SCIENCE FAIRS
JOURNAL OF RESEARCH IN SCIENCE TEACHING
68 8
*BIOLOGY, *GRADE 10, *STUDENT CHARACTERISTICS, *SECONDARY SCHOOL
SCIENCE, *SCIENCE FAIRS, APTITUDE INTERESTS, RESEARCH REPORTS,
SCIENCE SERVICE INCORPORATED, INTERNATIONAL SCIENCE FAIR,
DIFFERENTIAL APTITUDE TESTS, KUDER PREFERENCE RECORD-VOCATIONAL FORM
4. SE 005 971 3 13 01 17
BOZARTH, JAMES OLIVER
THE ABILITY TO CONSERVE QUANTITY OF LIQUID AND ITS RELATIONSHIP
TO SOCIOECONOMIC BACKGROUND, INTELLIGENCE, AND ACHIEVEMENT
AMONG SELECTED FOURTH GRADE PUPILS
UNIVERSITY OF ARIZONA, TUCSON
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 026 266 NOT AVAILABLE FROM EDRS
68 112
*ACHIEVEMENT, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE,
*LEARNING, *SOCIOECONOMIC BACKGROUND, DOCTORAL THESES, GRADE 4,
INTELLIGENCE, SOCIOECONOMIC INFLUENCE, STUDENT CHARACTERISTICS,
METROPOLITAN ACHIEVEMENT TEST, LORGE-THORNDIKE INTELLIGENCE TEST,
STANFORD ACHIEVEMENT TEST, PIAGET CONSERVATION TESTS

5. SE 004 549 1 13 09 17
BRODIE, DONALD Q.; SUCHMAN, EDWARD A.
SOCIOECONOMIC STATUS AND STUDENTS' EDUCATIONAL DESIRES
UNIVERSITY OF PITTSBURGH, PENNSYLVANIA, LEARNING RESEARCH
AND DEVELOPMENT CENTER
08 00 67 12
*ACADEMIC ASPIRATION, *EDUCATIONAL DESIRES, *HIGH ACHIEVERS,
*LOW ABILITY STUDENTS, *SOCIOECONOMIC STATUS, *STUDENT ATTITUDES,
EDUCATIONAL ATTITUDES, SOCIOECONOMIC BACKGROUND, STUDENT INTERESTS
6. SE 004 059 3 13 22 17
BROWN, TERRANCE RALPH
ATTITUDES TOWARD SCIENCE AND CRITICAL THINKING ABILITIES OF
CHEMISTRY AND NON-CHEMISTRY STUDENTS IN THE TACOMA PUBLIC SCHOOLS
OREGON STATE UNIVERSITY, CORVALLIS
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 022 671 NOT AVAILABLE FROM EDRS
67 145
*ACHIEVEMENT, *CHEMISTRY, *CRITICAL THINKING, *STUDENT ATTITUDES,
*SECONDARY SCHOOL SCIENCE, COMPARATIVE ANALYSIS, DOCTORAL THESES,
STUDENT CHARACTERISTICS, RESEARCH REPORTS, TACOMA, WASHINGTON,
CORNELL CRITICAL THINKING TEST, REACTION INVENTORY, DIFFERENTIAL
APTITUDE TEST
7. SE 004 312 2 13 32 17
DELANEY, CREIGHTON HALL
A STUDY OF THE ATTITUDES OF EIGHTH GRADE STUDENTS TOWARD
SPECIFIC ART ACTIVITIES IN RELATIONSHIP TO THEIR ATTITUDES
TOWARD CREATIVE ACTIVITIES IN ENGLISH AND SCIENCE AND
THEIR DRAWING ABILITIES
ARIZONA STATE UNIVERSITY, TEMPE
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
65 129
*ATTITUDES, *ART, *CREATIVITY, *SECONDARY SCHOOL SCIENCE,
*STUDENT CHARACTERISTICS, DOCTORAL THESES, GRADE 8, RESEARCH REPORTS,
SCIENCE ACTIVITIES
8. SE 004 851 3 13 93 17
GOHN, LYLE ALAN
AN INVESTIGATION OF THE SELECTION TECHNIQUES OF VETERINARY
SCIENCE AND MEDICINE STUDENTS AT PURDUE UNIVERSITY
PURDUE UNIVERSITY, LAFAYETTE, INDIANA
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 022 681 NOT AVAILABLE FROM EDRS
67 169
*ACHIEVEMENT, *COLLEGE STUDENTS, *COLLEGE SCIENCE, *MEDICAL
STUDENTS, *VETERINARY MEDICINE, DOCTORAL THESES, GRADES
(SCHOLASTIC), RESEARCH REPORTS, PURDUE UNIVERSITY, SCHOOL
OF VETERINARY MEDICINE AND SCIENCE

9. SE 005 764 1 13 88 17
 GREEN, FREDERICK ELMAN
 ELEMENTARY SCHOOL CHILDREN'S INTERESTS IN THE SOCIAL SCIENCES
 AS REVEALED BY A FORCED CHOICE QUESTIONNAIRE
 BALL STATE UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 68 100
 *ELEMENTARY EDUCATION, *RESEARCH REPORTS, *SOCIAL SCIENCES,
 *STUDENT INTERESTS, *STUDENT CHARACTERISTICS, ANTHROPOLOGY,
 DOCTORAL THESES, ECONOMICS, GEOGRAPHY, HISTORY, SOCIOLOGY, 1968
10. SE 005 129 2 13 92 17
 HEDLEY, ROBERT LLOYD
 STUDENT ATTITUDE AND ACHIEVEMENT IN SCIENCE COURSES
 IN MANITOBA SECONDARY SCHOOLS
 MICHIGAN STATE UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 195
 *ACHIEVEMENT, *CHEMISTRY, *PHYSICS, *STUDENT CHARACTERISTICS,
 *SECONDARY SCHOOL SCIENCE, ATTITUDES, COMPARATIVE ANALYSIS, DOCTORAL
 THESES, GRADE 10, GENERAL SCIENCE, PHYSICAL SCIENCE, RESEARCH
 REPORTS, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENTIFIC ATTITUDES,
 1966, PHYSICAL SCIENCE STUDY COMMITTEE, CHEMICAL EDUCATION
 MATERIALS STUDY, OTIS MENTAL ABILITY TEST, TEST ON UNDERSTANDING
 SCIENCE, STUDENT ATTITUDE TOWARD SCIENCE
11. SE 005 654 1 13 13 17
 JOHNSTEN, THOMAS D.
 ACHIEVEMENT IN GENERAL COLLEGE BIOLOGY AS RELATED TO HIGH
 SCHOOL BACKGROUND IN SCIENCE AND MATHEMATICS
 JOURNAL OF RESEARCH IN SCIENCE TEACHING
 68 2
 *ACADEMIC ACHIEVEMENT, *BIOLOGY, *COLLEGE SCIENCE, EDUCATIONAL
 BACKGROUND, MATHEMATICS, PREDICTION, RESEARCH REPORTS, STUDENT
 CHARACTERISTICS, SCIENCES, UNIVERSITY OF NEBRASKA DEPARTMENT
 OF CERTIFICATION, ADVANCED BIOLOGY PLACEMENT EXAMINATION
12. SE 000 023 2 13 95 17
 MALLINSON, GEORGE G.
 AN ANALYSIS OF THE FACTORS RELATED TO THE MOTIVATION AND
 ACHIEVEMENT OF STUDENTS IN SCIENCE COURSES IN THE JUNIOR
 AND SENIOR HIGH SCHOOLS. FINAL REPORT
 WESTERN MICHIGAN UNIVERSITY, KALAMAZOO
 177
 *ACHIEVEMENT, *MOTIVATION, *SCIENCE CAREERS, *SECONDARY SCHOOL
 SCIENCE, *STUDENT CHARACTERISTICS, *RESEARCH REPORTS, ABLE STUDENTS,
 SCIENTIFIC MANPOWER, SECONDARY SCHOOL STUDENTS, UNITED STATES
 OFFICE OF EDUCATION, SCIENCE RESEARCH ASSOCIATE JUNIOR INVENTORY,
 SCIENCE RESEARCH ASSOCIATE PRIMARY MENTAL ABILITIES, YOUR
 EDUCATIONAL PLANS, DIAGNOSTIC READING TEST, SCIENCE RESEARCH
 ASSOCIATE ACHIEVEMENT SERIES, NELSON BIOLOGY TEST, KUDER
 PREFERENCE RECORD, TEST FOR GENERAL PHYSICAL SCIENCE, AMERICAN
 CHEMICAL SOCIETY-NATIONAL SCIENCE TEACHERS ASSOCIATION CHEMISTRY
 TEST, DUNNING PHYSICS TEST, SCIENCE RESEARCH ASSOCIATE TESTS
 OF EDUCATIONAL ABILITY

13. SE 005 766 3 13 23 17
MYERS, BYRON EVANS
AN APPRAISAL OF CHANGE OF ATTITUDES TOWARD SCIENCE AND
AND SCIENTISTS AND OF STUDENT ACHIEVEMENT IN AN INTRODUCTORY
COLLEGE CHEMISTRY COURSE RELATIVE TO THE STUDENTS'
BACKGROUNDS IN HIGH-SCHOOL CHEMISTRY AND PHYSICS
PENNSYLVANIA STATE UNIVERSITY.
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 024 609 NOT AVAILABLE FROM EDRS
67 258
*ATTITUDES, *CHEMISTRY, *COLLEGE SCIENCE, *STUDENT CHARACTERISTICS,
*STUDENT ATTITUDES, ACADEMIC ACHIEVEMENT, BEHAVIOR, DOCTORAL
THESES, SCIENTISTS, SCIENCES, PENNSYLVANIA STATE UNIVERSITY, 1966
14. SE 004 866 3 13 09 17
NEUFELD, K. ALLEN
DIFFERENCES IN PERSONALITY CHARACTERISTICS BETWEEN GROUPS HAVING
HIGH AND LOW MATHEMATICAL ACHIEVEMENT GAIN UNDER INDIVIDUALIZED
INSTRUCTION
UNIVERSITY OF WISCONSIN
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 024 567 NOT AVAILABLE FROM EDRS
67 193
*ACHIEVEMENT, *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS,
*PERSONALITY, *STUDENT CHARACTERISTICS, ACADEMIC ACHIEVEMENT,
COMPARATIVE ANALYSIS, GRADE 4, GRADE 5, GRADE 6, HIGH ACHIEVERS,
LOW ACHIEVERS
15. SE 005 511 1 13 09 17
O'HARA, SISTER VIRGINIA MARY
AN INVESTIGATION OF THE EXISTENCE OF A COMMON PERSONALITY
PATTERN AMONG UNDERACHIEVERS IN MATHEMATICS
DAYTON UNIVERSITY, OHIO, SCHOOL OF EDUCATION
07 00 67 3
*ACHIEVEMENT, *ATTITUDES, *LOW ACHIEVERS, *MATHEMATICS, *SECONDARY
SCHOOL MATHEMATICS, ACADEMIC PERFORMANCE, COMPARATIVE ANALYSIS,
GRADE 8, RESEARCH REPORTS
16. SE 005 646 1 12 12 17
PARAKH, JAL S.
A STUDY OF TEACHER-PUPIL INTERACTION IN HIGH SCHOOL BIOLOGY
CLASSES. PART II, DESCRIPTION AND ANALYSIS
JOURNAL OF RESEARCH IN SCIENCE TEACHING
68 10
*BIOLOGY, *INTERACTION PROCESS ANALYSIS, *INSTRUCTION, *SECONDARY
SCHOOL SCIENCE, LEARNING, RESEARCH REPORTS, STUDENT CHARACTERISTICS, STUDENT
BEHAVIOR, TEACHER BEHAVIOR, TEACHER CHARACTERISTICS, FLANDERS
INTERACTION ANALYSIS SYSTEM, 1967

17. SE 004 189 2 13 12 17
PARAKH, JAL S.
A STUDY OF RELATIONSHIPS AMONG TEACHER BEHAVIOR, PUPIL
BEHAVIOR, AND PUPIL CHARACTERISTICS IN HIGH SCHOOL
BIOLOGY CLASSES. FINAL REPORT
U.S. DEPARTMENT OF HEW, OFFICE OF EDUCATION
09 00 67 130
*BIOLOGY, *EDUCATIONAL RESEARCH, *INTERACTION PROCESS ANALYSIS,
*SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, *TEACHER BEHAVIOR,
*STUDENT CHARACTERISTICS, ACADEMIC ACHIEVEMENT, RESEARCH REPORTS,
1966
18. SE 004 040 3 13 01 17
RAUN, CHESTER E.
THE INTERACTION BETWEEN CURRICULUM VARIABLES AND SELECTED
CLASSROOM STUDENT CHARACTERISTICS
UNIVERSITY OF TEXAS, AUSTIN
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 022 668 NOT AVAILABLE FROM EDRS
67 119
*CURRICULUM, *ELEMENTARY SCHOOL SCIENCE, *INQUIRY TRAINING,
*PROBLEM SOLVING, *STUDENT CHARACTERISTICS, ACHIEVEMENT, BEHAVIOR,
COGNITIVE PROCESSES, DOCTORAL THESES, GRADE 4, GRADE 5, GRADE 6,
PREDICTION, RESEARCH REPORTS, SCIENCE COURSE IMPROVEMENT PROJECT,
STUDENT BEHAVIOR, SEX DIFFERENCES, STUDENT ATTITUDES, SCIENCE-A
PROCESS APPROACH, 1967
19. SE 005 650 1 13 81 17
RAVEN, RONALD J.
THE DEVELOPMENT OF CLASSIFICATION ABILITIES IN CULTURALLY
DISADVANTAGED CHILDREN
JOURNAL OF RESEARCH IN SCIENCE TEACHING
68 7
*COGNITIVE ABILITY, *CULTURALLY DISADVANTAGED, *ELEMENTARY
SCHOOL SCIENCE, *LEARNING, *STUDENT CHARACTERISTICS, ELEMENTARY
SCHOOL STUDENTS, RESEARCH REPORTS, URBAN SCHOOLS, 1967
20. SE 005 987 3 13 53 17
SAUNDERS, WALTER LANE
VERBAL-NUMERICAL ACHIEVEMENT IN A REQUIRED COLLEGE PHYSICAL SCIENCE
COURSE AND SOME PERSONALITY CORRELATES
OREGON STATE UNIVERSITY, CORVALLIS
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 026 267 NOT AVAILABLE FROM EDRS
68 96
*ACADEMIC ACHIEVEMENT, *COLLEGE SCIENCE, *PHYSICAL SCIENCES,
*PERSONALITY STUDIES, *STUDENT CHARACTERISTICS, ACHIEVEMENT,
ACADEMIC PERFORMANCE, MATHEMATICS, UNDERGRADUATE STUDY,
CALIFORNIA PSYCHOLOGICAL INVENTORY

21. SE 005 988 1 13 82 17
SHEDD, AARON NEAL
AN ANALYSIS OF SELECTED ACADEMIC AND SOCIOECONOMIC FACTORS AS THEY
RELATE TO TWO TYPES OF PARTICIPATION OF SECONDARY-SCHOOL STUDENTS
IN THE JUNIOR SCIENCE AND HUMANITIES SYMPOSIA, 1964-1965
THE AMERICAN UNIVERSITY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
68 148
*HUMANITIES, *NATURAL SCIENCES, *STUDENT PARTICIPATION, *SECONDARY
SCHOOL SCIENCE, *SYMPOSIA, *STUDENT CHARACTERISTICS, DOCTORAL
THESES, EDUCATIONAL PROGRAMS, SOCIOECONOMIC INFLUENCES, 1964,
JUNIOR SCIENCE AND HUMANITIES SYMPOSIA
22. SE 004 309 2 13 91 18
STENDLER, CELIA BURNS
READINGS IN CHILD BEHAVIOR AND DEVELOPMENT
UNIVERSITY OF ILLINOIS, URBANA
64 498
*BEHAVIOR DEVELOPMENT, *CHILD DEVELOPMENT, *CHILD PSYCHOLOGY,
*DEVELOPMENT PSYCHOLOGY, *LEARNING, PERSONALITY DEVELOPMENT,
BEHAVIOR, CONCEPT FORMATION, INFANTS, INDIVIDUAL CHARACTERISTICS,
LOGICAL THINKING, PARENT STUDENT RELATIONSHIP, SCIENTIFIC CONCEPTS
23. SE 004 386 1 08 81 17
THOMAS, PATRICIA GRAFTON; BUELL, ROBERT R.
PIAGETIAN STUDIES IN SCIENCE - PERCEPTION AND RENDERING
OF FORM BY CHILDREN
JOURNAL OF RESEARCH IN SCIENCE TEACHING
68 1
*CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *LEARNING,
*PERCEPTIONS, *STUDENT CHARACTERISTICS, COGNITIVE PROCESSES,
GRADE 4, GRADE 5, GRADE 6, GRADE 7, RESEARCH REPORTS, PIAGET
24. SE 004 849 3 13 53 17
VAN ERDEWYK, ZENO MARTIN
ACADEMIC AND NON-ACADEMIC VARIABLES RELATED TO PERSISTENCE,
TRANSFER, AND ATTRITION OF ENGINEERING STUDENTS
NORTH DAKOTA UNIVERSITY, GRAND FORKS
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 022 680 NOT AVAILABLE FROM EDRS
67 195
*COLLEGE SCIENCE, *ENGINEERING EDUCATION, *PREDICTION, CAREERS,
DROPOUTS, DOCTORAL THESES, GRADES (SCHOLASTIC), TRANSFER STUDENTS,
UNDERGRADUATE STUDY, RESEARCH REPORTS, AMERICAN COLLEGE TESTS, UNIVERSITY
OF NORTH DAKOTA

25. SE 004 073 2 13 82 17
VITROGEN, DAVID
A METHOD FOR DETERMINING A GENERALIZED ATTITUDE OF HIGH SCHOOL
STUDENTS TOWARD SCIENCE
NEW YORK UNIVERSITY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
65 258
*EVALUATION, *SECONDARY SCHOOL SCIENCE, *STUDENT ATTITUDES, ATTITUDES,
ATTITUDE SCALES, DOCTORAL THESES, RESEARCH REPORTS, STUDENT
CHARACTERISTICS, STUDENT SCIENCE INTERESTS, IOWA TESTS OF EDUCATIONAL
DEVELOPMENT, KUDER PREFERENCE FORM-VOCATIONAL, SCIENCE TEACHER'S
RATING SCALE, 1965
26. SE 005 049 3 13 95 03
SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 10,
TEACHER CHARACTERISTICS, STUDENT CHARACTERISTICS
ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO
EDRS
ED 021 773 MF \$0.25 HC \$0.95
05 00 68 17
*BIBLIOGRAPHIES, *SCIENCE TEACHERS, *STUDENT CHARACTERISTICS,
*TEACHER CHARACTERISTICS, ADVANCED PROGRAMS, BIOLOGY, CHEMISTRY,
COLLEGE SCIENCE, DOCTORAL THESES, ELEMENTARY SCHOOL SCIENCE,
EDUCATIONALLY DISADVANTAGED, INTERACTION PROCESS ANALYSIS, PHYSICS,
PHYSICAL SCIENCES, SLOW LEARNERS, SECONDARY SCHOOL SCIENCE, TEACHER
EVALUATION, TEACHER ATTITUDES, STUDENT ATTITUDES
27. SE 005 184 3 13 01 17
WAGNER, BARTLETT ADAM
THE RESPONSES OF ECONOMICALLY ADVANTAGED AND ECONOMICALLY
DISADVANTAGED SIXTH GRADE PUPILS TO SCIENCE DEMONSTRATIONS
UNIVERSITY OF CONNECTICUT, STORRS
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 026 252 NOT AVAILABLE FROM EDRS
67 206
*ACADEMIC ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION,
*STUDENT CHARACTERISTICS, *SOCIOECONOMIC BACKGROUND, ACHIEVEMENT,
CULTURALLY DISADVANTAGED, DOCTORAL THESES, ECONOMICALLY
DISADVANTAGED, LABORATORY EXPERIMENTS

C. AUTHOR INDEX

Authors or organizations responsible for documents are listed alphabetically. The document number of each publication listed is entered after the name of the author or organization. The letter indicates the section of the bibliography and the numeral represents the document number in that section.

- BINGMAN, RICHARD MARVIN (B2, B3) NEUFELD, K. ALLEN (B14)
BOZARTH, JAMES OLIVER (B4) O'HARA, SISTER VIRGINIA MARY (B15)
BRODIE, DONALD Q.;
SUCHMAN, EDWARD A. (B5) PARAKH, JAL S. (A12, A13, B16, B17)
BROWN, TERRANCE RALPH (B6) PERKES, VICTOR ASTON (A14)
CARTER, JACK CALDWELL (A2) RAUN, CHESTER E. (B18)
CARUTHERS, BERTRAM, SR. (A3) RAVEN, RONALD J. (B19)
DELANEY, CREIGHTON HALL (B7) ROSENBLOOM, PAUL C.;
GOHN, LYLE ALAN (B8) AND OTHERS (A15)
GREEN, FREDERICK ELMAN (B9) SADLER, PAUL M. (A16)
HANDLEY, HERBERT M.;
BLEDSOE, JOSEPH C. (A4) SARGENT, EARL ALVIN (A17)
HEDLEY, CAROLYN NEAL (A5) SAUNDERS, WALTER LANE (B20)
HEDLEY, ROBERT LLOYD (B10) SCHMEDEMANN, GARY;
HELDMAN, LAWRENCE;
AND OTHERS (A6) LA SHIER, WILLIAM S. (A18)
HINES, SALLYLEE HUGHES (A7) SHEDD, AARON NEAL (B21)
JOHNSTEN, THOMAS D. (B11) SHUGART, C. G. (A19)
JORGENSEN, HAROLD CHRISTEN (A8) STENDLER, CELIA BURNS (B22)
KIMBALL, MERRITT E. (A9) THOMAS, PATRICIA GRAFTON;
LANE, RODNEY A. (A10) BUELL, ROBERT R. (B23)
MACHLUK, STEFAN (A11) TWEETEN, PAUL W.;
MALLINSON, GEORGE G. (B12) YAGER, ROBERT E. (A20)
MYERS, BYRON EVANS (B13) VAN ERDEWYK, ZENO MARTIN (B24)
 VITROGEN, DAVID (B25)
 WAGNER, BARTLETT ADAM (B27)
 WALBERG, HERBERT J.;
 WELCH, WAYNE W. (A21)
 WOODARD, A. L. (A22)

D. UNAUTHORED ARTICLES

EDITORIAL COMMENT (B1)

SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 10, TEACHER
CHARACTERISTICS, STUDENT CHARACTERISTICS (A1, B26)